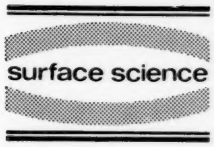
Surface Science 274 (1992) 457–463
North-Holland



Author index

Abdelmoula, M., T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129
Ahmed, N., see Yaldram 274 (1992) L515
Ai, R., H.-J. Fan and L.D. Marks, Electron-stimulated surface reactions in ReO_3 274 (1992) L559
Alameh, R., see Borensztein 274 (1992) L509
Almlöf, J., see Srivastava 274 (1992) 113
Amer, N.M., see Meyer 274 (1992) L541
Andersson, D.R., see Van Slooten 274 (1992) 1
Armstrong, S.R., R.D. Hoare, M.E. Pemble, I.M. Povey, A. Stafford, A.G. Taylor, B.A. Joyce, J.H. Neave, D.R. Klug and J. Zhang, A RHEED and reflectance anisotropy study of the MBE growth of GaAs, AlAs and InAs on GaAs(001) 274 (1992) 263
Asahi, T., see Yokoyama 274 (1992) 222
Avrin, W.F. and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231

Barrett, N.T., see Senhaji 274 (1992) 297
Bart, F., M. Gautier, J.P. Duraud and M. Henriot, $(01\bar{1}0)$ α-quartz surface: a LEED, XANES and ELS study 274 (1992) 317
Bauer, E., see Ghrayeb 274 (1992) 44
Berger, H., see Manivannan 274 (1992) L554
Bonnell, D.A., see Zhong 274 (1992) 35
Borensztein, Y. and R. Alameh, Optical evidence for interface electronic states at Ag/Si interfaces 274 (1992) L509
Boulliard, J.C., see Fargues 274 (1992) L494
Brenten, H., H. Müller and V. Kempter, Electrons from intra- and inter-atomic Auger processes in low-energy He^{2+} collisions with partially alkalated W(110) surfaces 274 (1992) 309
Bringer, A. and J. Harris, Wavepacket study of a charge transfer system 274 (1992) 403
Bürgler, D., see Wiesendanger 274 (1992) 93

Cao, A.Q., see Olson 274 (1992) L489
Cavell, R.G., see Karolewski 274 (1992) 421
Ceva, T., see Abdelmoula 274 (1992) 129
Chang, A., Yu.M. Ivanchenko, Z.Y. Rong and E.L. Wolf, Statistical correlations on the BiO surface in $Bi_2Sr_2CaCu_2O_{8-x}$ single crystals 274 (1992) L504
Chen, P.J., M.L. Colaianni and J.T. Yates, Jr., Silicon backbond strain effects on NH_3 surface chemistry: Si(111)-(7 × 7) compared to Si(100)-(2 × 1) 274 (1992) L605
Chen, S.P., Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619
Chen, T., see Howells 274 (1992) 141
Chérif, S.M., J.-P. Lacharme and C.A. Sébenne, Dissociative adsorption of NH_3 on cleaved Si(111) 274 (1992) 257
Cobden, P.D., see Van Tol 274 (1992) 63
Coey, J.M.D., see Wiesendanger 274 (1992) 93

Elsevier Science Publishers B.V.

Cohen, D. and Y. Zeiri, Molecular dynamics study of the surface diffusion of n-alkane like adsorbates. II. Role of chain stiffness 274 (1992) 173
Colaianni, M.L., see Chen 274 (1992) L605
Cole, T., see Erickson 274 (1992) 363
Croset, B., see Abdelmoula 274 (1992) 129

Daoxuan Dai, Xiangdong Wang, Jihuang Hu and Yuqing Ge, Electronic state studies of the clean Si(111)7 × 7 and the hydrogen chemisorbed Si(111) surface by total current spectroscopy 274 (1992) 252
De Boeij, P., see Wentink 274 (1992) 270
Delgado-Barrio, G., see Hernández 274 (1992) 21
Dementjev, A.P., see Rakhovskaya 274 (1992) 190
Demidchik, A.N., see Zotov 274 (1992) L583
Desjonquères, M.C., see Forni 274 (1992) 161
DiMaggio, C.L., see Luo 274 (1992) 53
Dolle, P., see Fargues 274 (1992) L494
Doña, J.M. and J. González-Velasco, The dependence of the surface diffusion coefficients of gold atoms on the potential: its influence on reconstruction of metal lattices 274 (1992) 205
Dornisch, D., W. Moritz, H. Schulz, R. Feidenhans'l, M. Nielsen, F. Grey, R.L. Johnson and G. Le Lay, Ag on Ge(111): 2D X-ray structure analysis of the $\sqrt{3} \times \sqrt{3}$ superstructure 274 (1992) 215
Dubin, V.M., Formation mechanism of porous silicon layers obtained by anodization of monocrystalline n-type silicon in HF solutions 274 (1992) 82
Dubinina, E.M., see Rakhovskaya 274 (1992) 190
Dupont-Pavlovsky, N., see Abdelmoula 274 (1992) 129
Duraud, J.P., see Bart 274 (1992) 317

Ehrhardt, J.J., see Fargues 274 (1992) L494
Elovikov, S.S., see Rakhovskaya 274 (1992) 190
Erickson, J.W., W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As/InP(100)$ 274 (1992) 363
Erkoc, S., T. Halicioglu and W.A. Tiller, Simulation calculations for gold clusters on the GaAs(110) surface 274 (1992) 359

Fan, H.-J., see Ai 274 (1992) L559
Fargues, D., P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494
Feidenhans'l, R., see Dornisch 274 (1992) 215
Fisher, G.B., see Luo 274 (1992) 53
Foord, J.S., see Singh 274 (1992) 341
Forni, A., M.C. Desjonquères, D. Spanjaard and G.F. Tantardini, A Monte Carlo quasi-classical trajectories study of the chemisorption of hydrogen on the W(001) surface 274 (1992) 161
Frohn, J., see Poensgen 274 (1992) 430
Fujishima, A., see Manivannan 274 (1992) L554

Gallagher, M., see Howells 274 (1992) 141
Gao, X., A. Hamelin and M.J. Weaver, Relaxation at high-index surfaces studied by atomic-resolution scanning tunneling microscopy: Au(311), (533), and (221) electrochemical interfaces 274 (1992) L588
Gao, X., see Haiss 274 (1992) L593
Gautier, M., see Bart 274 (1992) 317

Ge, M., see Venkateswaran 274 (1992) 199
Ghrayeb, R., M. Hou, P. Mahavadi and E. Bauer, The short-range order of 4 × 2 tellurium submonolayers on the molybdenum (110) surface 274 (1992) 44
Giesen, M., see Poensgen 274 (1992) 430
Gislason, E.A., see Van Slooten 274 (1992) 1
Goncharuk, V.V., see Ilchenko 274 (1992) 287
González-Velasco, J., see Doña 274 (1992) 205
Goodman, D.W., see Kuhn 274 (1992) L611
Gorb, L.G., see Ilchenko 274 (1992) 287
Greber, T., see Stuck 274 (1992) 441
Green, A.K., see Erickson 274 (1992) 363
Grey, F., see Dornisch 274 (1992) 215
Guillot, C., see Senhaji 274 (1992) 297
Güntherodt, H.-J., see Wiesendanger 274 (1992) 93

Haiss, W., J.K. Sass, X. Gao and M.J. Weaver, Iodine adlayer structures on Au(111) as discerned by atomic-resolution scanning tunnelling microscopy: relation to iodide electrochemical adsorption 274 (1992) L593
Halicioglu, T., see Erkoc 274 (1992) 359
Hamelin, A., see Gao 274 (1992) L588
Hara, S., see Ikemiya 274 (1992) L524
Harris, J., see Bringer 274 (1992) 403
Hashimoto, K., see Manivannan 274 (1992) L554
Hayden, B.E. and G.P. Nicholson, An ellipsometric study of potassium adsorption on TiO_2(110) 274 (1992) 277
Hellsing, B. and V.P. Zhdanov, Effect of intra-atomic Coulomb repulsion on charge transfer in atom scattering on metal surfaces 274 (1992) 411
Henriot, M., see Bart 274 (1992) 317
Hernández, M., S. Miret-Artés, P. Villarreal and G. Delgado-Barrio, Study of the selective adsorption phenomenon in the $^4He/Cu(11\alpha)$ (with $\alpha = 0, 3, 5, 7$) elastic scattering: the critical kinematic effect 274 (1992) 21
Hoare, R.D., see Armstrong 274 (1992) 263
Hou, M., see Ghrayeb 274 (1992) 44
Howells, S., T. Chen, M. Gallagher, D. Sarid, D.L. Lichtenberger, L.L. Wright, C.D. Ray, D.R. Huffman and L.D. Lamb, High resolution images of single C_{60} molecules on gold (111) using scanning tunneling microscopy 274 (1992) 141
Huffman, D.R., see Howells 274 (1992) 141

Ibach, H., see Poensgen 274 (1992) 430
Ikemiya, N., S. Hara, K. Ogino and T. Nakajima, Surface structure of fluorine–graphite intercalation compounds observed by atomic force microscopy 274 (1992) L524
Ilchenko, N.N., L.G. Gorb and V.V. Goncharuk, MINDO/3 calculations of the geometrical structure of the Lewis acid site on (0001) α-Al_2O_3 274 (1992) 287
Ivanchenko, Yu.M., see Chang 274 (1992) L504

Jia, J.F., see Zhao 274 (1992) L519
Jihuang Hu, see Daoxuan Dai 274 (1992) 252
Jing, Z. and J.L. Whitten, Ab initio studies of Si(100) surface reconstruction 274 (1992) 106
Johnson, R.L., see Dornisch 274 (1992) 215
José-Yacamán, M., see Miki-Yoshida 274 (1992) L569
Joud, J.C., Surface wetting by a second phase in a fluid binary alloy 274 (1992) 292
Joyce, B.A., see Armstrong 274 (1992) 263

Jupille, J. and N.V.Richardson, Comment on 'An RHEELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO by W.T. Petrie and J.M. Vohs' 274 (1992) L501

Karolewski, M.A. and R.G. Cavell, SIMS study of $Cs/MoS_2(0001)$. III. Chemisorption of acetone, propanal, 2-propanol and pyridine 274 (1992) 421
Kempter, V., see Brenten 274 (1992) 309
Khan, M.A., see Yaldram 274 (1992) L515
Kitajima, Y., see Yokoyama 274 (1992) 222
Kleyn, A.W., see Van Slooten 274 (1992) 1
Klug, D.R., see Armstrong 274 (1992) 263
Kuhn, W.K., J. Szanyi and D.W. Goodman, CO adsorption on Pd(111): the effects of temperature and pressure 274 (1992) L611
Kwasniewski, V.J. and L.D. Schmidt, Surface diffusion of CO on Pt(111) 274 (1992) 329

Lacharme, J.-P., see Chérif 274 (1992) 257
Lamb, L.D., see Howells 274 (1992) 141
Lambert, D.K., see Luo 274 (1992) 53
Latham, R.V., see Xu 274 (1992) 147
Le Lay, G., see Dornisch 274 (1992) 215
Legrand, B., see Senhaji 274 (1992) 297
Levy, F., see Manivannan 274 (1992) L554
Lichtenberger, D.L., see Howells 274 (1992) 141
Lifshits, V.G., see Zotov 274 (1992) L583
Lindsay, S.M., see Tao 274 (1992) L546
Luo, J.S., R.G. Tobin, D.K. Lambert, G.B. Fisher and C.L. DiMaggio,CO adsorption site occupation on Pt(335): a quantitative investigation using TPD and EELS 274 (1992) 53
Luse, C.N., see Zangwill 274 (1992) L529
Luse, C.N., A. Zangwill, D.D. Vvedensky and M.R. Wilby, Adatom mobility on vicinal surfaces during epitaxial growth 274 (1992) L535

Mahavadi, P., see Ghrayeb 274 (1992) 44
Mamy, R. and A. Muñoz-Yagüe, GaAs/Si(100) interface formation: a photoemission study 274 (1992) 99
Manivannan, A., L.A. Nagahara, M. Tsukada, K. Hashimoto, A. Fujishima, H. Berger and F. Levy, Probing the anion effects on the charge density waves in 1T-TaS_2 by scanning tunneling microscopy 274 (1992) L554
Marks, L.D., see Ai 274 (1992) L559
Medvedev, I.G., Electron correlation effects in adsorption models based on the Anderson Hamiltonian 274 (1992) 393
Merrill, R.P., see Avrin 274 (1992) 231
Meyer, G., B. Voigtländer and N.M. Amer, Scanning tunneling microscopy of surfactant-mediated epitaxy of Ge on Si(111): strain relief mechanisms and growth kinetics 274 (1992) L541
Miki-Yoshida, M., S. Tehuacanero and M. José-Yacamán, On the high temperature coalescence of metallic nanocrystals 274 (1992) L569
Miret-Artés, S., see Hernández 274 (1992) 21
Moritz, W., see Dornisch 274 (1992) 215
Müller, H., see Brenten 274 (1992) 309
Muñoz-Yagüe, A., see Mamy 274 (1992) 99
Murrell, A.J., see Singh 274 (1992) 341

Nagahara, L.A., see Manivannan 274 (1992) L554
Nakajima, T., see Ikemiya 274 (1992) L524
Naumović, D., see Stuck 274 (1992) 441
Neave, J.H., see Armstrong 274 (1992) 263
Nicholson, G.P., see Hayden 274 (1992) 277
Nielsen, M., see Dornisch 274 (1992) 215
Nieuwenhuys, B.E., see Van Tol 274 (1992) 63

Ogino, K., see Ikemiya 274 (1992) L524
Ohta, T., see Yokoyama 274 (1992) 222
Olson, J.A. and A.Q. Cao, Near-resonant electron transfer in cesium sputtering from a metal surface: work function dependence 274 (1992) L489
Osterwalder, J., see Stuck 274 (1992) 441
Osuch, K., On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120

Pemble, M.E., see Armstrong 274 (1992) 263
Petrie, W.T. and J.M. Vohs, Reply to "Comment on 'An HREELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO' by J. Jupille and N.V. Richardson" 274 (1992) L503
Poensgen, M., J.F. Wolf, J. Frohn, M. Giesen and H. Ibach, Step dynamics on Ag(111) and Cu(100) surfaces 274 (1992) 430
Povey, I.M., see Armstrong 274 (1992) 263

Rakhovskaya, O.V., S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190
Ray, C.D., see Howells 274 (1992) 141
Rehn, V., see Erickson 274 (1992) 363
Richardson, N.V., see Jupille 274 (1992) L501
Rogers, D. and T. Tiedje, STM study of SiC crystallite growth on vicinal Si(111) surfaces 274 (1992) L599
Rong, Z.Y., see Chang 274 (1992) L504

Saalfrank, P., Quantum size effects in thin lead films 274 (1992) 449
Sarid, D., see Howells 274 (1992) 141
Sass, J.K., see Haiss 274 (1992) L593
Sato, H., see Yokoyama 274 (1992) 222
Sattler, K., see Venkateswaran 274 (1992) 199
Schlapbach, L., see Stuck 274 (1992) 441
Schmidt, L.D., see Kwasniewski 274 (1992) 329
Schulz, H., see Dornisch 274 (1992) 215
Sébenne, C.A., see Chérif 274 (1992) 257
Senhaji, A., G. Tréglia, B. Legrand, N.T. Barrett, C. Guillot and B. Villette, Is the segregation–dissolution kinetics driven by a surface local equilibrium? An answer via the kinetic tight-binding Ising model 274 (1992) 297
Shakhurin, E.S., see Rakhovskaya 274 (1992) 190
Shvets, I.V., see Wiesendanger 274 (1992) 93
Siera, J., see Van Tol 274 (1992) 63
Singh, N.K., A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341
Sotto, M., see Fargues 274 (1992) L494
Spanjaard, D., see Forni 274 (1992) 161

Srivastava, S. and J. Almlöf, Chemisorption of aluminum atoms on a graphite surface: cluster convergence and effects of surface reconstruction 274 (1992) 113
Stafford, A., see Armstrong 274 (1992) 263
Stuck, A., D. Naumović, T. Greber, J. Osterwalder and L. Schlapbach, Comments on the correction of holographic images from forward-scattering diffraction patterns 274 (1992) 441
Szanyi, J., see Kuhn 274 (1992) L611

Takata, Y., see Yokoyama 274 (1992) 222
Tantardini, G.F., see Forni 274 (1992) 161
Tao, N.J. and S.M. Lindsay, Kinetics of a potential induced $23 \times \sqrt{3}$ to 1×1 transition of Au(111) studied by in situ scanning tunneling microscopy 274 (1992) L546
Tarrach, G., see Wiesendanger 274 (1992) 93
Taylor, A.G., see Armstrong 274 (1992) 263
Tehuacanero, S., see Miki-Yoshida 274 (1992) L569
Theis, W.M., see Erickson 274 (1992) 363
Tiedje, T., see Rogers 274 (1992) L599
Tiller, W.A., see Erkoc 274 (1992) 359
Tobin, R.G., see Luo 274 (1992) 53
Tong, S.Y., see Wei 274 (1992) L577
Tréglia, G., see Senhaji 274 (1992) 297
Tsukada, M., see Manivannan 274 (1992) L554

Van Silfhout, A., see Wentink 274 (1992) 270
Van Slooten, U., D.R. Andersson, A.W. Kleyn and E.A. Gislason, Scattering of fast molecular hydrogen from Ag(111) 274 (1992) 1
Van Tol, M.F.H., J. Siera, P.D. Cobden and B.E. Nieuwenhuys, Oscillatory behaviour of the reduction of nitric oxide by ammonia over the Pt(100) single-crystal surface: the role of oxygen, comparison with the NO–H_2 reaction and a general reaction mechanism for NO reduction by NH_3 over Pt 274 (1992) 63
Venkateswaran, N., K. Sattler, J. Xhie and M. Ge, Photon emission from nano-granular gold excited by electron tunneling 274 (1992) 199
Villarreal, P., see Hernández 274 (1992) 21
Villette, B., see Senhaji 274 (1992) 297
Vlaev, S.Zh., Semi-empirical Anderson–Newns–Grimley model for qualitative study of metal clusters adsorbed on metal substrates 274 (1992) 185
Vohs, J.M., see Petrie 274 (1992) L503
Vohs, J.M., see Zhong 274 (1992) 35
Voigtländer, B., see Meyer 274 (1992) L541
Vvedensky, D.D., see Zangwill 274 (1992) L529
Vvedensky, D.D., see Luse 274 (1992) L535

Wang, N., see Xu 274 (1992) 378
Wang, N., see Xu 274 (1992) 386
Weaver, M.J., see Gao 274 (1992) L588
Weaver, M.J., see Haiss 274 (1992) L593
Wei, C.M. and S.Y. Tong, Direct atomic structure by holographic diffuse LEED 274 (1992) L577
Wentink, D.J., H. Wormeester, P. de Boeij, C. Wijers and A. van Silfhout, Optical anisotropy of Ge(001)2×1 274 (1992) 270
Whitten, J.L., see Jing 274 (1992) 106
Wiesendanger, R., D. Bürgler, G. Tarrach, H.-J. Güntherodt, I.V. Shvets and J.M.D. Coey, Scanning tunneling microscopy study of the degree of dimer asymmetry on the Si(001)-(2×1) surface 274 (1992) 93

Wijers, C., see Wentink 274 (1992) 270
Wilby, M.R., see Zangwill 274 (1992) L529
Wilby, M.R., see Luse 274 (1992) L535
Wolf, E.L., see Chang 274 (1992) L504
Wolf, J.F., see Poensgen 274 (1992) 430
Wormeester, H., see Wentink 274 (1992) 270
Wright, L.L., see Howells 274 (1992) 141

Xhie, J., see Venkateswaran 274 (1992) 199
Xiangdong Wang, see Daoxuan Dai 274 (1992) 252
Xu, N.S. and R.V. Latham, The application of an energy-selective imaging technique to a study of field-induced hot electrons from broad-area high-voltage electrodes 274 (1992) 147
Xu, X., N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Ni chemisorption system 274 (1992) 378
Xu, X., N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Cu chemisorption system 274 (1992) 386

Yagi, S., see Yokoyama 274 (1992) 222
Yaldram, K., N. Ahmed and M.A. Khan, Role of sticking coefficients on kinetic phase transitions in catalytic reactions 274 (1992) L515
Yang, W.S., see Zhao 274 (1992) L519
Yates, Jr., J.T., see Chen 274 (1992) L605
Yokoyama, T., S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222
Yuqing Ge, see Daoxuan Dai 274 (1992) 252

Zangwill, A., C.N. Luse, D.D. Vvedensky and M.R. Wilby, Equations of motion for epitaxial growth 274 (1992) L529
Zangwill, A., see Luse 274 (1992) L535
Zeiri, Y., see Cohen 274 (1992) 173
Zhang, J., see Armstrong 274 (1992) 263
Zhang, Q., see Xu 274 (1992) 378
Zhang, Q., see Xu 274 (1992) 386
Zhao, R.G., J.F. Jia and W.S. Yang, Surface superstructures of the Pb/Si(001) system 274 (1992) L519
Zhdanov, V.P., see Hellsing 274 (1992) 411
Zhong, Q., J.M. Vohs and D.A. Bonnell, Effect of reduction on the topographic and electronic structure of TiO_2(110) surfaces 274 (1992) 35
Zotov, A.V., V.G. Lifshits and A.N. Demidchik, Ordered surface phases in Sb/Si(110) systems 274 (1992) L583

Surface Science 274 (1992) 464–477
North-Holland

surface science

Subject index

Adsorption isotherms, see also Chemisorption theory, Physisorption
M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129

Alkali halides
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190

Alkali metals
J.A.Olson and A.Q. Cao, Near-resonant electron transfer in cesium sputtering from a metal surface: work function dependence 274 (1992) L489
B.E. Hayden and G.P. Nicholson, An ellipsometric study of potassium adsorption on TiO_2(110) 274 (1992) 277
H. Brenten, H. Müller and V. Kempter, Electrons from intra- and inter-atomic Auger processes in low-energy He^{2+} collisions with partially alkalated W(110) surfaces 274 (1992) 309

Alloys
A. Senhaji, G. Tréglia, B. Legrand, N.T. Barrett, C. Guillot and B. Villette, Is the segregation–dissolution kinetics driven by a surface local equilibrium? An answer via the kinetic tight-binding Ising model 274 (1992) 297

Aluminium
S. Srivastava and J. Almlöf, Chemisorption of aluminum atoms on a graphite surface: cluster convergence and effects of surface reconstruction 274 (1992) 113

Aluminium oxide
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190
N.N. Ilchenko, L.G. Gorb and V.V. Goncharuk, MINDO/3 calculations of the geometrical structure of the Lewis acid site on (0001) α-Al_2O_3 274 (1992) 287

Ammonia
M.F.H. van Tol, J. Siera, P.D. Cobden and B.E. Nieuwenhuys, Oscillatory behaviour of the reduction of nitric oxide by ammonia over the Pt(100) single-crystal surface: the role of oxygen, comparison with the NO–H_2 reaction and a general reaction mechanism for NO reduction by NH_3 over Pt 274 (1992) 63
S.M. Chérif, J.-P. Lacharme and C.A. Sébenne, Dissociative adsorption of NH_3 on cleaved Si(111) 274 (1992) 257
P.J. Chen, M.L. Colaianni and J.T. Yates, Jr., Silicon backbond strain effects on NH_3 surface chemistry: Si(111)-(7 × 7) compared to Si(100)-(2 × 1) 274 (1992) L605
N.K. Singh, A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341

Elsevier Science Publishers B.V.

Antimony
A.V. Zotov, V.G. Lifshits and A.N. Demidchik, Ordered surface phases in Sb/Si(110) systems 274 (1992) L583

Atomic and molecular beam studies
U. van Slooten, D.R. Andersson, A.W. Kleyn and E.A. Gislason, Scattering of fast molecular hydrogen from Ag(111) 274 (1992) 1
M. Hernández, S. Miret-Artés, P. Villarreal and G. Delgado-Barrio, Study of the selective adsorption phenomenon in the ^{4}He/Cu(11α) (with $\alpha = 0, 3, 5, 7$) elastic scattering: the critical kinematic effect 274 (1992) 21
A. Forni, M.C. Desjonquères, D. Spanjaard and G.F. Tantardini, A Monte Carlo quasi-classical trajectories study of the chemisorption of hydrogen on the W(001) surface 274 (1992) 161
W.F. Avrin and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231
A. Bringer and J. Harris, Wavepacket study of a charge transfer system 274 (1992) 403
B. Hellsing and V.P. Zhdanov, Effect of intra-atomic Coulomb repulsion on charge transfer in atom scattering on metal surfaces 274 (1992) 411

Atomic force microscopy
N. Ikemiya, S. Hara, K. Ogino and T. Nakajima, Surface structure of fluorine–graphite intercalation compounds observed by atomic force microscopy 274 (1992) L524

Auger electron spectroscopy
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190
W.F. Avrin and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231
A.V. Zotov, V.G. Lifshits and A.N. Demidchik, Ordered surface phases in Sb/Si(110) systems 274 (1992) L583

Band structure
P. Saalfrank, Quantum size effects in thin lead films 274 (1992) 449

Carbon monoxide
K. Yaldram, N. Ahmed and M.A. Khan, Role of sticking coefficients on kinetic phase transitions in catalytic reactions 274 (1992) L515
J.S. Luo, R.G. Tobin, D.K. Lambert, G.B. Fisher and C.L. DiMaggio, CO adsorption site occupation on Pt(335): a quantitative investigation using TPD and EELS 274 (1992) 53
W.K. Kuhn, J. Szanyi and D.W. Goodman, CO adsorption on Pd(111): the effects of temperature and pressure 274 (1992) L611
V.J. Kwasniewski and L.D. Schmidt, Surface diffusion of CO on Pt(111) 274 (1992) 329
X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Ni chemisorption system 274 (1992) 378
X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Cu chemisorption system 274 (1992) 386

Carboxylic acid
J.Jupille and N.V.Richardson, Comment on 'An RHEELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO by W.T. Petrie and J.M. Vohs' 274 (1992) L501

W.T. Petrie and J.M. Vohs, Reply to "Comment on 'An HREELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO' by J. Jupille and N.V. Richardson" 274 (1992) L503

Chemisorption theory

S. Srivastava and J. Almlöf, Chemisorption of aluminum atoms on a graphite surface: cluster convergence and effects of surface reconstruction 274 (1992) 113

S.Zh. Vlaev, Semi-empirical Anderson–Newns–Grimley model for qualitative study of metal clusters adsorbed on metal substrates 274 (1992) 185

N.N. Ilchenko, L.G. Gorb and V.V. Goncharuk, MINDO/3 calculations of the geometrical structure of the Lewis acid site on (0001) α-Al_2O_3 274 (1992) 287

X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Ni chemisorption system 274 (1992) 378

X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Cu chemisorption system 274 (1992) 386

I.G. Medvedev, Electron correlation effects in adsorption models based on the Anderson Hamiltonian 274 (1992) 393

Clusters

S.Zh. Vlaev, Semi-empirical Anderson–Newns–Grimley model for qualitative study of metal clusters adsorbed on metal substrates 274 (1992) 185

M. Miki-Yoshida, S. Tehuacanero and M. José-Yacamán, On the high temperature coalescence of metallic nanocrystals 274 (1992) L569

S. Erkoc, T. Halicioglu and W.A. Tiller, Simulation calculations for gold clusters on the GaAs(110) surface 274 (1992) 359

Copper

M. Hernández, S. Miret-Artés, P. Villarreal and G. Delgado-Barrio, Study of the selective adsorption phenomenon in the $^4He/Cu(11\alpha)$ (with $\alpha = 0, 3, 5, 7$) elastic scattering: the critical kinematic effect 274 (1992) 21

X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Cu chemisorption system 274 (1992) 386

M. Poensgen, J.F. Wolf, J. Frohn, M. Giesen and H. Ibach, Step dynamics on Ag(111) and Cu(100) surfaces 274 (1992) 430

A. Stuck, D. Naumović, T. Greber, J. Osterwalder and L. Schlapbach, Comments on the correction of holographic images from forward-scattering diffraction patterns 274 (1992) 441

Electron diffraction, see also Low energy electron diffraction

S.R. Armstrong, R.D. Hoare, M.E. Pemble, I.M. Povey, A. Stafford, A.G. Taylor, B.A. Joyce, J.H. Neave, D.R. Klug and J. Zhang, A RHEED and reflectance anisotropy study of the MBE growth of GaAs, AlAs and InAs on GaAs(001) 274 (1992) 263

A. Stuck, D. Naumović, T. Greber, J. Osterwalder and L. Schlapbach, Comments on the correction of holographic images from forward-scattering diffraction patterns 274 (1992) 441

Electron emission

H. Brenten, H. Müller and V. Kempter, Electrons from intra- and inter-atomic Auger processes in low-energy He^{2+} collisions with partially alkalated W(110) surfaces 274 (1992) 309

Electron energy loss spectroscopy
J.Jupille and N.V.Richardson, Comment on 'An RHEELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO by W.T. Petrie and J.M. Vohs' 274 (1992) L501
W.T. Petrie and J.M. Vohs, Reply to "Comment on 'An HREELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO' by J. Jupille and N.V. Richardson" 274 (1992) L503
J.S. Luo, R.G. Tobin, D.K. Lambert, G.B. Fisher and C.L. DiMaggio, CO adsorption site occupation on Pt(335): a quantitative investigation using TPD and EELS 274 (1992) 53
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190
S.M. Chérif, J.-P. Lacharme and C.A. Sébenne, Dissociative adsorption of NH_3 on cleaved Si(111) 274 (1992) 257
P.J. Chen, M.L. Colaianni and J.T. Yates, Jr., Silicon backbond strain effects on NH_3 surface chemistry: Si(111)-(7×7) compared to Si(100)-(2×1) 274 (1992) L605
F. Bart, M. Gautier, J.P. Duraud and M. Henriot, $(01\bar{1}0)$ α-quartz surface: a LEED, XANES and ELS study 274 (1992) 317
N.K. Singh, A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341

Electron microscopy
R. Ai, H.-J. Fan and L.D. Marks, Electron-stimulated surface reactions in ReO_3 274 (1992) L559
M. Miki-Yoshida, S. Tehuacanero and M. José-Yacamán, On the high temperature coalescence of metallic nanocrystals 274 (1992) L569

Electron stimulated desorption
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190

Ellipsometry
D.J. Wentink, H. Wormeester, P. de Boeij, C. Wijers and A. van Silfhout, Optical anisotropy of Ge(001)2×1 274 (1992) 270
B.E. Hayden and G.P. Nicholson, An ellipsometric study of potassium adsorption on TiO_2(110) 274 (1992) 277

Epitaxy
A. Zangwill, C.N. Luse, D.D. Vvedensky and M.R. Wilby, Equations of motion for epitaxial growth 274 (1992) L529
C.N. Luse, A. Zangwill, D.D. Vvedensky and M.R. Wilby, Adatom mobility on vicinal surfaces during epitaxial growth 274 (1992) L535
D. Rogers and T. Tiedje, STM study of SiC crystallite growth on vicinal Si(111) surfaces 274 (1992) L599

Faceting
S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

Field emission
N.S. Xu and R.V. Latham, The application of an energy-selective imaging technique to a study of field-induced hot electrons from broad-area high-voltage electrodes 274 (1992) 147

Gallium arsenide

R. Mamy and A. Muñoz-Yagüe, GaAs/Si(100) interface formation: a photoemission study 274 (1992) 99

S.R. Armstrong, R.D. Hoare, M.E. Pemble, I.M. Povey, A. Stafford, A.G. Taylor, B.A. Joyce, J.H. Neave, D.R. Klug and J. Zhang, A RHEED and reflectance anisotropy study of the MBE growth of GaAs, AlAs and InAs on GaAs(001) 274 (1992) 263

N.K. Singh, A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341

S. Erkoc, T. Halicioglu and W.A. Tiller, Simulation calculations for gold clusters on the GaAs(110) surface 274 (1992) 359

J.W. Erickson, W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As/InP(100)$ 274 (1992) 363

Germanium

G. Meyer, B. Voigtländer and N.M. Amer, Scanning tunneling microscopy of surfactant-mediated epitaxy of Ge on Si(111): strain relief mechanisms and growth kinetics 274 (1992) L541

D. Dornisch, W. Moritz, H. Schulz, R. Feidenhans'l, M. Nielsen, F. Grey, R.L. Johnson and G. Le Lay, Ag on Ge(111): 2D X-ray structure analysis of the $\sqrt{3} \times \sqrt{3}$ superstructure 274 (1992) 215

D.J. Wentink, H. Wormeester, P. de Boeij, C. Wijers and A. van Silfhout, Optical anisotropy of Ge(001)2×1 274 (1992) 270

Gold

N.J. Tao and S.M. Lindsay, Kinetics of a potential induced $23 \times \sqrt{3}$ to 1×1 transition of Au(111) studied by in situ scanning tunneling microscopy 274 (1992) L546

N. Venkateswaran, K. Sattler, J. Xhie and M. Ge, Photon emission from nanogranular gold excited by electron tunneling 274 (1992) 199

J.M. Doña and J. González-Velasco, The dependence of the surface diffusion coefficients of gold atoms on the potential: its influence on reconstruction of metal lattices 274 (1992) 205

M. Miki-Yoshida, S. Tehuacanero and M. José-Yacamán, On the high temperature coalescence of metallic nanocrystals 274 (1992) L569

X. Gao, A. Hamelin and M.J. Weaver, Relaxation at high-index surfaces studied by atomic-resolution scanning tunneling microscopy: Au(311), (533), and (221) electrochemical interfaces 274 (1992) L588

W. Haiss, J.K. Sass, X. Gao and M.J. Weaver, Iodine adlayer structures on Au(111) as discerned by atomic-resolution scanning tunnelling microscopy: relation to iodide electrochemical adsorption 274 (1992) L593

S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

S. Erkoc, T. Halicioglu and W.A. Tiller, Simulation calculations for gold clusters on the GaAs(110) surface 274 (1992) 359

Graphite

S. Srivastava and J. Almlöf, Chemisorption of aluminum atoms on a graphite surface: cluster convergence and effects of surface reconstruction 274 (1992) 113

K. Osuch, On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120

M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129

N. Ikemiya, S. Hara, K. Ogino and T. Nakajima, Surface structure of fluorine–graphite intercalation compounds observed by atomic force microscopy 274 (1992) L524

Halogens

N. Ikemiya, S. Hara, K. Ogino and T. Nakajima, Surface structure of fluorine–graphite intercalation compounds observed by atomic force microscopy 274 (1992) L524

W. Haiss, J.K. Sass, X. Gao and M.J. Weaver, Iodine adlayer structures on Au(111) as discerned by atomic-resolution scanning tunnelling microscopy: relation to iodide electrochemical adsorption 274 (1992) L593

Hydrogen

U. van Slooten, D.R. Andersson, A.W. Kleyn and E.A. Gislason, Scattering of fast molecular hydrogen from Ag(111) 274 (1992) 1

A. Forni, M.C. Desjonquères, D. Spanjaard and G.F. Tantardini, A Monte Carlo quasi-classical trajectories study of the chemisorption of hydrogen on the W(001) surface 274 (1992) 161

Daoxuan Dai, Xiangdong Wang, Jihuang Hu and Yuqing Ge, Electronic state studies of the clean Si(111)7 × 7 and the hydrogen chemisorbed Si(111) surface by total current spectroscopy 274 (1992) 252

Indium arsenide

S.R. Armstrong, R.D. Hoare, M.E. Pemble, I.M. Povey, A. Stafford, A.G. Taylor, B.A. Joyce, J.H. Neave, D.R. Klug and J. Zhang, A RHEED and reflectance anisotropy study of the MBE growth of GaAs, AlAs and InAs on GaAs(001) 274 (1992) 263

J.W. Erickson, W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As/InP(100)$ 274 (1992) 363

Indium phosphide

J.W. Erickson, W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As/InP(100)$ 274 (1992) 363

Infrared spectroscopy

W.K. Kuhn, J. Szanyi and D.W. Goodman, CO adsorption on Pd(111): the effects of temperature and pressure 274 (1992) L611

Inorganic compounds

T. Yokoyama, S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222

N.K. Singh, A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341

Ion scattering

R. Ghrayeb, M. Hou, P. Mahavadi and E. Bauer, The short-range order of 4 × 2 tellurium submonolayers on the molybdenum (110) surface 274 (1992) 44

A. Bringer and J. Harris, Wavepacket study of a charge transfer system 274 (1992) 403

Iridium

W.F. Avrin and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231

Lead
R.G. Zhao, J.F. Jia and W.S. Yang, Surface superstructures of the Pb/Si(001) system 274 (1992) L519
P. Saalfrank, Quantum size effects in thin lead films 274 (1992) 449

Low energy electron diffraction
D. Fargues, P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494
R.G. Zhao, J.F. Jia and W.S. Yang, Surface superstructures of the Pb/Si(001) system 274 (1992) L519
W.F. Avrin and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231
C.M. Wei and S.Y. Tong, Direct atomic structure by holographic diffuse LEED 274 (1992) L577
A.V. Zotov, V.G. Lifshits and A.N. Demidchik, Ordered surface phases in Sb/Si(110) systems 274 (1992) L583
F. Bart, M. Gautier, J.P. Duraud and M. Henriot, $(01\bar{1}0)$ α-quartz surface: a LEED, XANES and ELS study 274 (1992) 317

Luminescence
N. Venkateswaran, K. Sattler, J. Xhie and M. Ge, Photon emission from nano-granular gold excited by electron tunneling 274 (1992) 199

Magnesium oxide
O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190

Magnetic measurements
K. Osuch, On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120

Metals
S.Zh. Vlaev, Semi-empirical Anderson–Newns–Grimley model for qualitative study of metal clusters adsorbed on metal substrates 274 (1992) 185

Molecular beam epitaxy
S.R. Armstrong, R.D. Hoare, M.E. Pemble, I.M. Povey, A. Stafford, A.G. Taylor, B.A. Joyce, J.H. Neave, D.R. Klug and J. Zhang, A RHEED and reflectance anisotropy study of the MBE growth of GaAs, AlAs and InAs on GaAs(001) 274 (1992) 263

Molybdenum
R. Ghrayeb, M. Hou, P. Mahavadi and E. Bauer, The short-range order of 4×2 tellurium submonolayers on the molybdenum (110) surface 274 (1992) 44
S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

Nickel
D. Fargues, P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494
T. Yokoyama, S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222

X. Xu, N. Wang and Q. Zhang, Studies on cluster–surface analogy: ab initio calculations for the CO/Ni chemisorption system 274 (1992) 378

Nitric oxide

M.F.H. van Tol, J. Siera, P.D. Cobden and B.E. Nieuwenhuys, Oscillatory behaviour of the reduction of nitric oxide by ammonia over the Pt(100) single-crystal surface: the role of oxygen, comparison with the NO–H_2 reaction and a general reaction mechanism for NO reduction by NH_3 over Pt 274 (1992) 63

Noble gases

D. Fargues, P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494

Organic substances

M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129

M.A. Karolewski and R.G. Cavell, SIMS study of Cs/MoS_2(0001). III. Chemisorption of acetone, propanal, 2-propanol and pyridine 274 (1992) 421

Oxides

R. Ai, H.-J. Fan and L.D. Marks, Electron-stimulated surface reactions in ReO_3 274 (1992) L559

Oxygen

K. Yaldram, N. Ahmed and M.A. Khan, Role of sticking coefficients on kinetic phase transitions in catalytic reactions 274 (1992) L515

K. Osuch, On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120

Palladium

W.K. Kuhn, J. Szanyi and D.W. Goodman, CO adsorption on Pd(111): the effects of temperature and pressure 274 (1992) L611

S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

Photoelectron spectroscopy

D. Fargues, P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494

R. Mamy and A. Muñoz-Yagüe, GaAs/Si(100) interface formation: a photoemission study 274 (1992) 99

T. Yokoyama, S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222

J.W. Erickson, W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As$/InP(100) 274 (1992) 363

Physisorption, see also Adsorption isotherms

K. Osuch, On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120

M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129

Platinum

J.S. Luo, R.G. Tobin, D.K. Lambert, G.B. Fisher and C.L. DiMaggio, CO adsorption site occupation on Pt(335): a quantitative investigation using TPD and EELS 274 (1992) 53

M.F.H. van Tol, J. Siera, P.D. Cobden and B.E. Nieuwenhuys, Oscillatory behaviour of the reduction of nitric oxide by ammonia over the Pt(100) single-crystal surface: the role of oxygen, comparison with the NO–H_2 reaction and a general reaction mechanism for NO reduction by NH_3 over Pt 274 (1992) 63

S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

V.J. Kwasniewski and L.D. Schmidt, Surface diffusion of CO on Pt(111) 274 (1992) 329

Reflection spectroscopy

Y. Borensztein and R. Alameh, Optical evidence for interface electronic states at Ag/Si interfaces 274 (1992) L509

D.J. Wentink, H. Wormeester, P. de Boeij, C. Wijers and A. van Silfhout, Optical anisotropy of Ge(001)2×1 274 (1992) 270

Secondary ion mass spectroscopy

M.A. Karolewski and R.G. Cavell, SIMS study of Cs/MoS_2(0001). III. Chemisorption of acetone, propanal, 2-propanol and pyridine 274 (1992) 421

Selenium

A. Manivannan, L.A. Nagahara, M. Tsukada, K. Hashimoto, A. Fujishima, H. Berger and F. Levy, Probing the anion effects on the charge density waves in 1T-TaS_2 by scanning tunneling microscopy 274 (1992) L554

Silicon

Y. Borensztein and R. Alameh, Optical evidence for interface electronic states at Ag/Si interfaces 274 (1992) L509

V.M. Dubin, Formation mechanism of porous silicon layers obtained by anodization of monocrystalline n-type silicon in HF solutions 274 (1992) 82

R. Wiesendanger, D. Bürgler, G. Tarrach, H.-J. Güntherodt, I.V. Shvets and J.M.D. Coey, Scanning tunneling microscopy study of the degree of dimer asymmetry on the Si(001)-(2×1) surface 274 (1992) 93

R. Mamy and A. Muñoz-Yagüe, GaAs/Si(100) interface formation: a photoemission study 274 (1992) 99

Z. Jing and J.L. Whitten, Ab initio studies of Si(100) surface reconstruction 274 (1992) 106

R.G. Zhao, J.F. Jia and W.S. Yang, Surface superstructures of the Pb/Si(001) system 274 (1992) L519

G. Meyer, B. Voigtländer and N.M. Amer, Scanning tunneling microscopy of surfactant-mediated epitaxy of Ge on Si(111): strain relief mechanisms and growth kinetics 274 (1992) L541

Daoxuan Dai, Xiangdong Wang, Jihuang Hu and Yuqing Ge, Electronic state studies of the clean Si(111)7×7 and the hydrogen chemisorbed Si(111) surface by total current spectroscopy 274 (1992) 252

S.M. Chérif, J.-P. Lacharme and C.A. Sébenne, Dissociative adsorption of NH_3 on cleaved Si(111) 274 (1992) 257

A.V. Zotov, V.G. Lifshits and A.N. Demidchik, Ordered surface phases in Sb/Si(110) systems 274 (1992) L583

D. Rogers and T. Tiedje, STM study of SiC crystallite growth on vicinal Si(111) surfaces 274 (1992) L599

P.J. Chen, M.L. Colaianni and J.T. Yates, Jr., Silicon backbond strain effects on NH_3 surface chemistry: Si(111)-(7 × 7) compared to Si(100)-(2 × 1) 274 (1992) L605

Silicon carbide

D. Rogers and T. Tiedje, STM study of SiC crystallite growth on vicinal Si(111) surfaces 274 (1992) L599

Silicon oxide

O.V. Rakhovskaya, S.S. Elovikov, E.M. Dubinina, E.S. Shakhurin and A.P. Dementjev, Electron stimulated desorption process from ionic compound surface 274 (1992) 190

F. Bart, M. Gautier, J.P. Duraud and M. Henriot, $(01\bar{1}0)$ α-quartz surface: a LEED, XANES and ELS study 274 (1992) 317

Silver

Y. Borensztein and R. Alameh, Optical evidence for interface electronic states at Ag/Si interfaces 274 (1992) L509

U. van Slooten, D.R. Andersson, A.W. Kleyn and E.A. Gislason, Scattering of fast molecular hydrogen from Ag(111) 274 (1992) 1

D. Dornisch, W. Moritz, H. Schulz, R. Feidenhans'l, M. Nielsen, F. Grey, R.L. Johnson and G. Le Lay, Ag on Ge(111): 2D X-ray structure analysis of the $\sqrt{3} \times \sqrt{3}$ superstructure 274 (1992) 215

M. Poensgen, J.F. Wolf, J. Frohn, M. Giesen and H. Ibach, Step dynamics on Ag(111) and Cu(100) surfaces 274 (1992) 430

Solid–electrolyte interface

V.M. Dubin, Formation mechanism of porous silicon layers obtained by anodization of monocrystalline n-type silicon in HF solutions 274 (1992) 82

N.J. Tao and S.M. Lindsay, Kinetics of a potential induced $23 \times \sqrt{3}$ to 1×1 transition of Au(111) studied by in situ scanning tunneling microscopy 274 (1992) L546

J.M. Doña and J. González-Velasco, The dependence of the surface diffusion coefficients of gold atoms on the potential: its influence on reconstruction of metal lattices 274 (1992) 205

X. Gao, A. Hamelin and M.J. Weaver, Relaxation at high-index surfaces studied by atomic-resolution scanning tunneling microscopy: Au(311), (533), and (221) electrochemical interfaces 274 (1992) L588

W. Haiss, J.K. Sass, X. Gao and M.J. Weaver, Iodine adlayer structures on Au(111) as discerned by atomic-resolution scanning tunnelling microscopy: relation to iodide electrochemical adsorption 274 (1992) L593

Sputtering

J.A.Olson and A.Q. Cao, Near-resonant electron transfer in cesium sputtering from a metal surface: work function dependence 274 (1992) L489

Sulphides

A. Manivannan, L.A. Nagahara, M. Tsukada, K. Hashimoto, A. Fujishima, H. Berger and F. Levy, Probing the anion effects on the charge density waves in 1T-TaS_2 by scanning tunneling microscopy 274 (1992) L554

M.A. Karolewski and R.G. Cavell, SIMS study of Cs/MoS_2(0001). III. Chemisorption of acetone, propanal, 2-propanol and pyridine 274 (1992) 421

Superconductivity
A. Chang, Yu.M. Ivanchenko, Z.Y. Rong and E.L. Wolf, Statistical correlations on the BiO surface in $Bi_2Sr_2CaCu_2O_{8-x}$ single crystals 274 (1992) L504

Surface defects
Q. Zhong, J.M. Vohs and D.A. Bonnell, Effect of reduction on the topographic and electronic structure of TiO_2(110) surfaces 274 (1992) 35
M. Poensgen, J.F. Wolf, J. Frohn, M. Giesen and H. Ibach, Step dynamics on Ag(111) and Cu(100) surfaces 274 (1992) 430

Surface diffusion
D. Cohen and Y. Zeiri, Molecular dynamics study of the surface diffusion of n-alkane like adsorbates. II. Role of chain stiffness 274 (1992) 173
J.M. Doña and J. González-Velasco, The dependence of the surface diffusion coefficients of gold atoms on the potential: its influence on reconstruction of metal lattices 274 (1992) 205
V.J. Kwasniewski and L.D. Schmidt, Surface diffusion of CO on Pt(111) 274 (1992) 329

Surface energy
S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

Surface roughness
J.M. Doña and J. González-Velasco, The dependence of the surface diffusion coefficients of gold atoms on the potential: its influence on reconstruction of metal lattices 274 (1992) 205

Surface segregation
A. Senhaji, G. Tréglia, B. Legrand, N.T. Barrett, C. Guillot and B. Villette, Is the segregation–dissolution kinetics driven by a surface local equilibrium? An answer via the kinetic tight-binding Ising model 274 (1992) 297

Surface states and interface states
Y. Borensztein and R. Alameh, Optical evidence for interface electronic states at Ag/Si interfaces 274 (1992) L509
Daoxuan Dai, Xiangdong Wang, Jihuang Hu and Yuqing Ge, Electronic state studies of the clean Si(111)7 × 7 and the hydrogen chemisorbed Si(111) surface by total current spectroscopy 274 (1992) 252

Surface stress
G. Meyer, B. Voigtländer and N.M. Amer, Scanning tunneling microscopy of surfactant-mediated epitaxy of Ge on Si(111): strain relief mechanisms and growth kinetics 274 (1992) L541
J.W. Erickson, W.M. Theis, T. Cole, A.K. Green and V. Rehn, A photoemission study of coherently strained $In_xGa_{1-x}As$/InP(100) 274 (1992) 363

Surface structure, see also Low energy electron diffraction
R. Ghrayeb, M. Hou, P. Mahavadi and E. Bauer, The short-range order of 4 × 2 tellurium submonolayers on the molybdenum (110) surface 274 (1992) 44
R. Wiesendanger, D. Bürgler, G. Tarrach, H.-J. Güntherodt, I.V. Shvets and J.M.D. Coey, Scanning tunneling microscopy study of the degree of dimer asymmetry on the Si(001)-(2 × 1) surface 274 (1992) 93

Z. Jing and J.L. Whitten, Ab initio studies of Si(100) surface reconstruction 274 (1992) 106
R.G. Zhao, J.F. Jia and W.S. Yang, Surface superstructures of the Pb/Si(001) system 274 (1992) L519
N. Ikemiya, S. Hara, K. Ogino and T. Nakajima, Surface structure of fluorine–graphite intercalation compounds observed by atomic force microscopy 274 (1992) L524
N.J. Tao and S.M. Lindsay, Kinetics of a potential induced $23 \times \sqrt{3}$ to 1×1 transition of Au(111) studied by in situ scanning tunneling microscopy 274 (1992) L546
D. Dornisch, W. Moritz, H. Schulz, R. Feidenhans'l, M. Nielsen, F. Grey, R.L. Johnson and G. Le Lay, Ag on Ge(111): 2D X-ray structure analysis of the $\sqrt{3} \times \sqrt{3}$ superstructure 274 (1992) 215
T. Yokoyama, S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222
W.F. Avrin and R.P. Merrill, Helium diffraction analysis of the microfaceted Ir(110) surface 274 (1992) 231

Surface tension, see also Surface energy
J.C. Joud, Surface wetting by a second phase in a fluid binary alloy 274 (1992) 292

Surface thermodynamics
K. Osuch, On the ε–ζ_1 transition in molecular oxygen physisorbed on graphite in an external magnetic field 274 (1992) 120
M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Thermodynamic and structural properties of CCl_4 adsorbed on (0001) graphite 274 (1992) 129

Tellurium
R. Ghrayeb, M. Hou, P. Mahavadi and E. Bauer, The short-range order of 4×2 tellurium submonolayers on the molybdenum (110) surface 274 (1992) 44

Thermal desorption
J.S. Luo, R.G. Tobin, D.K. Lambert, G.B. Fisher and C.L. DiMaggio, CO adsorption site occupation on Pt(335): a quantitative investigation using TPD and EELS 274 (1992) 53
A. Forni, M.C. Desjonquères, D. Spanjaard and G.F. Tantardini, A Monte Carlo quasi-classical trajectories study of the chemisorption of hydrogen on the W(001) surface 274 (1992) 161
P.J. Chen, M.L. Colaianni and J.T. Yates, Jr., Silicon backbond strain effects on NH_3 surface chemistry: Si(111)-(7 × 7) compared to Si(100)-(2 × 1) 274 (1992) L605
V.J. Kwasniewski and L.D. Schmidt, Surface diffusion of CO on Pt(111) 274 (1992) 329
N.K. Singh, A.J. Murrell and J.S. Foord, An investigation of the adsorption and decomposition of PH_3 and NH_3 on GaAs(100) 274 (1992) 341

Tin
J.C. Joud, Surface wetting by a second phase in a fluid binary alloy 274 (1992) 292

Titanium oxide
Q. Zhong, J.M. Vohs and D.A. Bonnell, Effect of reduction on the topographic and electronic structure of TiO_2(110) surfaces 274 (1992) 35
B.E. Hayden and G.P. Nicholson, An ellipsometric study of potassium adsorption on TiO_2(110) 274 (1992) 277

Tungsten

J.A.Olson and A.Q. Cao, Near-resonant electron transfer in cesium sputtering from a metal surface: work function dependence 274 (1992) L489

S.P. Chen, Theoretical studies of ultrathin film-induced faceting on W(111) surfaces 274 (1992) L619

H. Brenten, H. Müller and V. Kempter, Electrons from intra- and inter-atomic Auger processes in low-energy He^{2+} collisions with partially alkalated W(110) surfaces 274 (1992) 309

Tunneling

A. Chang, Yu.M. Ivanchenko, Z.Y. Rong and E.L. Wolf, Statistical correlations on the BiO surface in $Bi_2Sr_2CaCu_2O_{8-x}$ single crystals 274 (1992) L504

Q. Zhong, J.M. Vohs and D.A. Bonnell, Effect of reduction on the topographic and electronic structure of TiO_2(110) surfaces 274 (1992) 35

R. Wiesendanger, D. Bürgler, G. Tarrach, H.-J. Güntherodt, I.V. Shvets and J.M.D. Coey, Scanning tunneling microscopy study of the degree of dimer asymmetry on the Si(001)-(2 × 1) surface 274 (1992) 93

G. Meyer, B. Voigtländer and N.M. Amer, Scanning tunneling microscopy of surfactant-mediated epitaxy of Ge on Si(111): strain relief mechanisms and growth kinetics 274 (1992) L541

N.J. Tao and S.M. Lindsay, Kinetics of a potential induced $23 \times \sqrt{3}$ to 1×1 transition of Au(111) studied by in situ scanning tunneling microscopy 274 (1992) L546

A. Manivannan, L.A. Nagahara, M. Tsukada, K. Hashimoto, A. Fujishima, H. Berger and F. Levy, Probing the anion effects on the charge density waves in 1T-TaS_2 by scanning tunneling microscopy 274 (1992) L554

N. Venkateswaran, K. Sattler, J. Xhie and M. Ge, Photon emission from nanogranular gold excited by electron tunneling 274 (1992) 199

X. Gao, A. Hamelin and M.J. Weaver, Relaxation at high-index surfaces studied by atomic-resolution scanning tunneling microscopy: Au(311), (533), and (221) electrochemical interfaces 274 (1992) L588

W. Haiss, J.K. Sass, X. Gao and M.J. Weaver, Iodine adlayer structures on Au(111) as discerned by atomic-resolution scanning tunnelling microscopy: relation to iodide electrochemical adsorption 274 (1992) L593

D. Rogers and T. Tiedje, STM study of SiC crystallite growth on vicinal Si(111) surfaces 274 (1992) L599

M. Poensgen, J.F. Wolf, J. Frohn, M. Giesen and H. Ibach, Step dynamics on Ag(111) and Cu(100) surfaces 274 (1992) 430

Water

N.N. Ilchenko, L.G. Gorb and V.V. Goncharuk, MINDO/3 calculations of the geometrical structure of the Lewis acid site on (0001) α-Al_2O_3 274 (1992) 287

Wetting

J.C. Joud, Surface wetting by a second phase in a fluid binary alloy 274 (1992) 292

Work function

D. Fargues, P. Dolle, J.J. Ehrhardt, M. Sotto and J.C. Boulliard, Adsorption of xenon on stepped nickel (*hk*0) surfaces by LEED and photoemission 274 (1992) L494

R. Mamy and A. Muñoz-Yagüe, GaAs/Si(100) interface formation: a photoemission study 274 (1992) 99

S.M. Chérif, J.-P. Lacharme and C.A. Sébenne, Dissociative adsorption of NH_3 on cleaved Si(111) 274 (1992) 257

X-ray absorption

T. Yokoyama, S. Yagi, Y. Takata, H. Sato, T. Asahi, T. Ohta and Y. Kitajima, S K-edge X-ray absorption and X-ray photoelectron spectroscopic studies of CS_2 adsorption on Ni(100) 274 (1992) 222

F. Bart, M. Gautier, J.P. Duraud and M. Henriot, $(01\bar{1}0)$ α-quartz surface: a LEED, XANES and ELS study 274 (1992) 317

X-ray diffraction

D. Dornisch, W. Moritz, H. Schulz, R. Feidenhans'l, M. Nielsen, F. Grey, R.L. Johnson and G. Le Lay, Ag on Ge(111): 2D X-ray structure analysis of the $\sqrt{3} \times \sqrt{3}$ superstructure 274 (1992) 215

Zinc oxide

J. Jupille and N.V.Richardson, Comment on 'An RHEELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO by W.T. Petrie and J.M. Vohs' 274 (1992) L501

W.T. Petrie and J.M. Vohs, Reply to "Comment on 'An HREELS investigation of the adsorption and reaction of formic acid on the (0001)-Zn surface of ZnO' by J. Jupille and N.V. Richardson" 274 (1992) L503